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APPLICATION NO.	FILING DATE	FIRST NAMED INVENT	OR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/053,467	11/07/2001	Hiroshi Inoue		09792909-5258	3706
26263 7590 11/01/2007 SONNENSCHEIN NATH & ROSENTHAL LLP P.O. BOX 061080 WACKER DRIVE STATION, SEARS TOWER				EXAMINER	
				WILLS, MONIQUE M	
CHICAGO, IL	•	STOWER		ART UNIT	PAPER NUMBER
·			/	1795	
				MAIL DATÉ	DELIVERY MODE
				11/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•		Application No.	Applicant(s)				
Office Action Summary		10/053,467	INOUE ET AL.				
		Examiner	Art Unit				
		Monique M. Wills	1795				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHC WHICI - Extens after S - If NO I - Failure Any re	DRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DA sions of time may be available under the provisions of 37 CFR 1.13 (b) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, pply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim iil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status		•					
1)⊠	Responsive to communication(s) filed on <u>14 August 2007</u> .						
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition	on of Claims						
<ul> <li>4)  Claim(s) 1,2,4-7,9-12,14-19 and 21-31 is/are pending in the application.</li> <li>4a) Of the above claim(s) 1,2,4,5,14-19 and 21-23 is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 6,9-12 and 24-31 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>							
Application	on Papers	·					
9)∐ T 10)⊠ T	The specification is objected to by the Examiner The drawing(s) filed on <u>07 October 2001</u> is/are: Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examiner	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority u	nder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P	ate				
Paper No(s)/Mail Date 6)  Other:							

Art Unit: 1795

#### **DETAILED ACTION**

### Response to Amendment

This Office Action is responsive to the Amendment filed August 14, 2007. The rejection of claim 32 under 35 U.S.C. 112 second paragraph is overcome. However, claims 6, 9-12, 24-31 are rejected under 103(a) as being obvious over Matsubara et al. U.S. Patent 6,797,434. The rejection is as follows:

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6, 9-12, 24-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over over Matsubara et al. U.S. Patent 6,797,434.

Matsubara teaches a negative active material for a rechargeable lithium battery comprising a metal of one or more of Sn, Iron, Lead, Silicon, Indium and Copper. See column 3, lines 10-20. The negative electrode also includes a carbonaceious material capable of being doped and undoped with lithium. See column 3, lines 30-45. The

Art Unit: 1795

carbonaceous material is graphite. See column 3, lines 32-35. The C alament is lead or indium. See column 3, lines 10-20.

Matsubara does not expressly disclose the weight percents of claim 6 and 25-29 where A-B-C contains 5 to 40% by weight of second element B and 1 to 5-% by weight of the third element C.

However, it would have been obvious to one of ordinary skill in the art at the time the instant invention was made to employ instant percent ranges, since it has been held that discover an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980). The skilled artisan recognizes the varying the amounts of active components directly effects the storage capacity and cycle life of the electrode.

## Response to Arguments

Applicant's arguments with respect to claim 32 have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Monique Wills whose telephone number is (571) 272-1309. The Examiner can normally be reached on Monday-Friday from 8:30am to 5:00 pm.

Application/Control Number: 10/053,467

Art Unit: 1795

Page 4

If attempts to reach Examiner by telephone are unsuccessful, the Examiner's supervisor, Patrick Ryan, may be reached at 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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10/27/07

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